

Notice of Allowability

Application No.

10/001,644

Examiner

Ella Colbert

Applicant(s)

CHEN ET AL.

Art Unit

3624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06 June 2007.
2. ☒ The allowed claim(s) is/are 53-71 and 103.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. Claims 35-103 are pending in this communication filed 06/06/07 entered as Response After Non Final Action (Non-Responsive Amendment). Claims 1-52 and 72-102 are canceled.
2. Claims 35-71 and 103 are allowed.
3. The following is an examiner's statement of reasons for allowance: The prior art of record (Robert Criag, "The Schema Wars" –non-patent reference) teaches a star schema which provides a hierarchical, multidimensional view of data and a dimensional model that takes care of aggregates and reduces the number of joins, the star schema also providing a multidimensional view of the data based on familiar relational technology having a central table (the fact table) and dimensional tables with each dimension table having a single-part primary key and the fact table having a multipart primary key which is a concatenation of the dimension table keys but fails to disclose a computer readable storage device-bearing instructions for storing data according to a data model and a computer-implemented method with the focal group and the customized group comprising a reverse star meta model. Gabrielle Gagnon, "Designing a data mart" (non-patent reference) teaches a dimensional model implemented in a relational system called a star join schema or a star schema where a central fact table contains attributes to be measured with the rest of the dimension tables containing descriptive attributes and the dimension tables arranged in a star pattern but fails to disclose a computer readable storage device-bearing instructions for storing data according to a data model and a computer-implemented method with the focal group

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and the customized group comprising a reverse star meta model. Jakobsson et al (US 5,848,408) teaches a star query being transformed by adding a star query sub-queries that are not in the query and two dimension tables and one table that constitutes a star schema in which the one table is a fact table but failed to disclose a computer readable storage device-bearing instructions for storing data according to a data model and a computer-implemented method with the focal group and the customized group comprising a reverse star meta model.

Even though, the prior art teaches a star schema, the prior art fails to teach or render obvious the instant invention which appears to be beyond the skill of one of ordinary skill in the art. Accordingly the invention would NOT have been obvious because one of ordinary skill could not have been expected to achieve the method and computer readable medium with one or more instructions for causing a processor to perform the steps of receiving a definition of a reverse star schema meta-model and generating a data warehouse populated with information from a source database and according with the reverse star schema meta model, NOR would they have been able to predict the results, and as such, they would have had no capability of expecting success.

For these reasons claims 53 and 103 are deemed allowable over the prior art of record, and claims 54-71 are allowed by dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Other Prior Art

Malloy et al (US 5,905,985); Stephen Peterson, "Stars: A Pattern Language for Query Optimized Schema"; Torben Bach Pedersen and Christian S. Jensen; "Multidimensional Data modeling for Complex Data".

Inquiries

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 571-272-6741. The examiner can normally be reached on Monday, Tuesday, and Thursday, 5:30AM-3:00PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 571-272-6712. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ELLA COLBERT
PRIMARY EXAMINER